

# Series: IRB - ISO B Carbon Steel

## Technical Features and Options

- Interchangeability: ISO 7241-1 series "B"
- Valve system: Poppet valve
- Mechanical connection: Locking balls
- Connection system: Pulling back the sleeve and pushing one half towards the other
- Disconnection system: Pulling back the sleeve
- Connection with residual pressure: Not allowed
- Disconnection with residual pressure: Not allowed
- Threads available: BSP, NPT
- On request: Free flow version (no valving)
- Temperature range:  
Standard seals NBR (Nitrile): from -20°C to +100°C ( from -4°F to +212°F).  
VITON seals: from -15°C to +180°C ( from +5°F to +356°F).



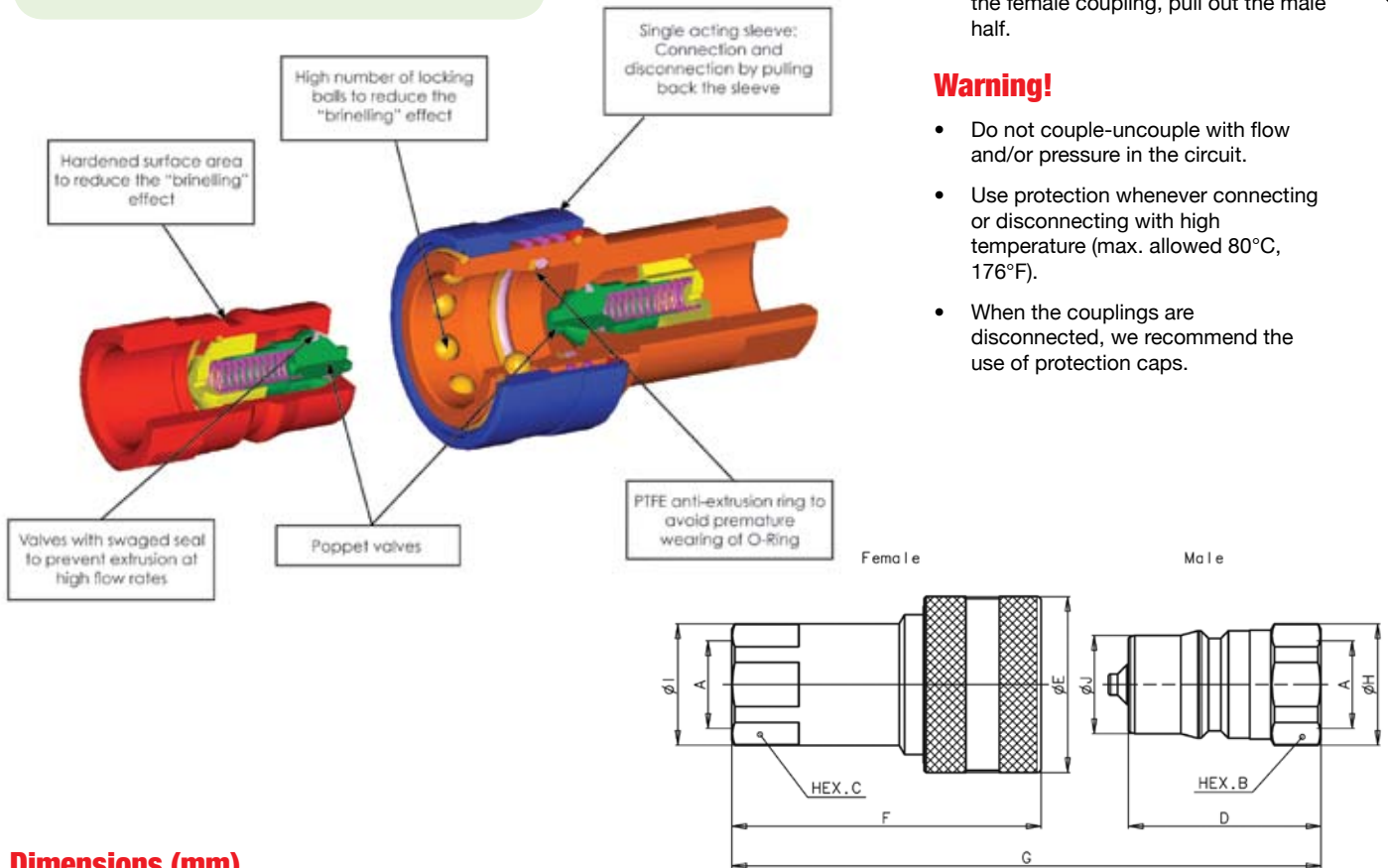
QUICK CONNECT COUPLINGS



Stucchi®

## Materials

Construction material: Carbon steel  
 Surface treatment: CrIII zinc plated  
 Springs: C72 steel  
 Balls: Hard steel 100 C6  
 Seals: standard in NBR (Nitrile)  
 Seals on request: VITON  
 Anti-extrusion rings: PTFE



## How To Use

- Before connecting, clean the mating parts of the couplings to avoid contamination into the circuit.
- To couple pull back the sleeve of the female coupling, align the female with the male coupling and push one into the other until both halves are fully connected and release the sleeve.
- To uncouple pull back the sleeve of the female coupling, pull out the male half.

## Warning!

- Do not couple-uncouple with flow and/or pressure in the circuit.
- Use protection whenever connecting or disconnecting with high temperature (max. allowed 80°C, 176°F).
- When the couplings are disconnected, we recommend the use of protection caps.

## Dimensions (mm)

Description	A	B	C	D	E	F	G	H	I	J	Weight	Male	Female
IRB18 BSP	1/8	14	14	30	23	48,8	60,5	15,8	15,8	10,8	Kg	0,018	0,068
IRB14 BSP	1/4	19	19	35	27	57	70,7	20,8	21,2	14,2	Kg	0,035	0,120
IRB38 BSP	3/8	24	24	41	34	66	82,7	26	27	19,1	Kg	0,068	0,220
IRB12 BSP	1/2	27	27	46	42	73,9	92,6	29	29	23,5	Kg	0,102	0,323
IRB34 BSP	3/4	36	36	55	50	90,1	111,1	38,5	38,5	31,4	Kg	0,203	0,562
IRB100 BSP	1	41	41	66	60	106,2	133,2	44,8	44,8	37,7	Kg	0,328	0,863

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### Performance

	Size	ISO Size	Max. flow suggested		Connect force		Disconnect force		Spillage*
	Inch	mm	l/min	GPM	N	lbf	N	lbf	ml
<b>IRB18</b>	1/8	5,0	6	1,59	75	16,88	35	7,88	0,18
<b>IRB14</b>	1/4	6,3	24	6,36	50	11,25	35	7,88	0,33
<b>IRB38</b>	3/8	10,0	46	12,19	80	18,00	45	10,13	2,20
<b>IRB12</b>	1/2	12,5	90	23,85	105	23,63	35	7,88	3,00
<b>IRB34</b>	3/4	20,0	148	39,22	125	28,13	40	9,00	9,40
<b>IRB100</b>	1	25,0	200	53,00	130	29,25	45	10,13	14,00

\* Spillage is an indicative value of the fluid loss per couple-uncouple cycle.

	Max. operating pressure						Burst pressure					
	Coupled		Male		Female		Coupled		Male		Female	
	MPa	psi	MPa	psi	MPa	psi	MPa	psi	MPa	psi	MPa	psi
<b>IRB18</b>	35	5075	35	5075	35	5075	120	17400	120	17400	120	17400
<b>IRB14</b>	35	5075	35	5075	35	5075	100	14500	100	14500	100	14500
<b>IRB38</b>	30	4350	30	4350	30	4350	100	14500	100	14500	100	14500
<b>IRB12</b>	28	4060	28	4060	28	4060	100	14500	100	14500	100	14500
<b>IRB34</b>	23	3335	23	3335	23	3335	100	14500	100	14500	100	14500
<b>IRB100</b>	18	2610	18	2610	18	2610	80	11600	80	11600	80	11600

Article no.	Description	Price £	Price €
<b>BSP THREAD</b>			
<b>800600000</b>	F. IRB18 BSP	<b>£14.50</b>	<b>€15.00</b>
<b>800600001</b>	M. IRB18 BSP	<b>£6.60</b>	<b>€6.80</b>
<b>800600002</b>	F. IRB14 BSP	<b>£14.50</b>	<b>€15.00</b>
<b>800600003</b>	M. IRB14 BSP	<b>£6.60</b>	<b>€6.80</b>
<b>800600004</b>	F. IRB38 BSP	<b>£16.20</b>	<b>€16.70</b>
<b>800600005</b>	M. IRB38 BSP	<b>£7.10</b>	<b>€7.30</b>
<b>800600006</b>	F. IRB12 BSP	<b>£20.50</b>	<b>€21.10</b>
<b>800600007</b>	M. IRB12 BSP	<b>£7.50</b>	<b>€7.70</b>
<b>800600008</b>	F. IRB34 BSP	<b>£36.20</b>	<b>€37.30</b>
<b>800600009</b>	M. IRB34 BSP	<b>£16.80</b>	<b>€17.40</b>
<b>800600010</b>	F. IRB100 BSP	<b>£55.70</b>	<b>€57.40</b>
<b>800600011</b>	M. IRB100 BSP	<b>£24.90</b>	<b>€25.70</b>
<b>BSP THREAD VITON SEALS</b>			
<b>800600100</b>	F. IRB18V BSP	<b>£15.30</b>	<b>€15.70</b>
<b>800600101</b>	M. IRB18V BSP	<b>£7.00</b>	<b>€7.20</b>
<b>800600102</b>	F. IRB14V BSP	<b>£15.30</b>	<b>€15.70</b>
<b>800600103</b>	M. IRB14V BSP	<b>£7.00</b>	<b>€7.20</b>
<b>800600104</b>	F. IRB38V BSP	<b>£17.00</b>	<b>€17.60</b>
<b>800600105</b>	M. IRB38V BSP	<b>£7.50</b>	<b>€7.70</b>
<b>800600106</b>	F. IRB12V BSP	<b>£21.50</b>	<b>€22.20</b>
<b>800600107</b>	M. IRB12V BSP	<b>£7.80</b>	<b>€8.10</b>
<b>800600108</b>	F. IRB34V BSP	<b>£38.10</b>	<b>€39.30</b>
<b>800600109</b>	M. IRB34V BSP	<b>£17.70</b>	<b>€18.20</b>
<b>800600110</b>	F. IRB100V BSP	<b>£58.60</b>	<b>€60.40</b>
<b>800600111</b>	M. IRB100V BSP	<b>£26.20</b>	<b>€27.10</b>

Article no.	Description	Price £	Price €
<b>NPT THREAD</b>			
<b>800601000</b>	F. IRB18 NPT	<b>£15.30</b>	<b>€15.70</b>
<b>800601001</b>	M. IRB18 NPT	<b>£6.90</b>	<b>€7.10</b>
<b>800601002</b>	F. IRB14 NPT	<b>£15.30</b>	<b>€15.70</b>
<b>800601003</b>	M. IRB14 NPT	<b>£6.90</b>	<b>€7.10</b>
<b>800601004</b>	F. IRB38 NPT	<b>£16.90</b>	<b>€17.40</b>
<b>800601005</b>	M. IRB38 NPT	<b>£7.50</b>	<b>€7.70</b>
<b>800601006</b>	F. IRB12 NPT	<b>£19.90</b>	<b>€20.60</b>
<b>800601007</b>	M. IRB12 NPT	<b>£7.30</b>	<b>€7.50</b>
<b>800601008</b>	F. IRB34 NPT	<b>£38.00</b>	<b>€39.10</b>
<b>800601009</b>	M. IRB34 NPT	<b>£17.70</b>	<b>€18.20</b>
<b>800601010</b>	F. IRB100 NPT	<b>£58.60</b>	<b>€60.40</b>
<b>800601011</b>	M. IRB100 NPT	<b>£26.20</b>	<b>€27.00</b>
<b>NPT THREAD VITON SEAL</b>			
<b>800601102</b>	F IRB14V NPT	<b>£16.70</b>	<b>€17.20</b>
<b>800601103</b>	M IRB14V NPT	<b>£7.60</b>	<b>€7.80</b>



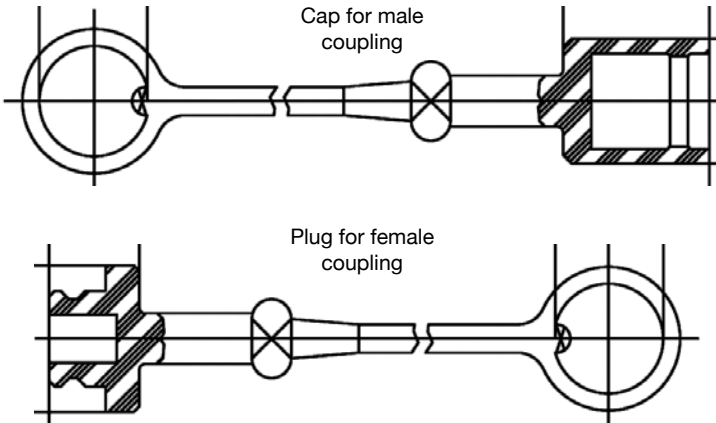
# Protection Caps ISO 'B' IRB Series

**Red dust caps are standard**

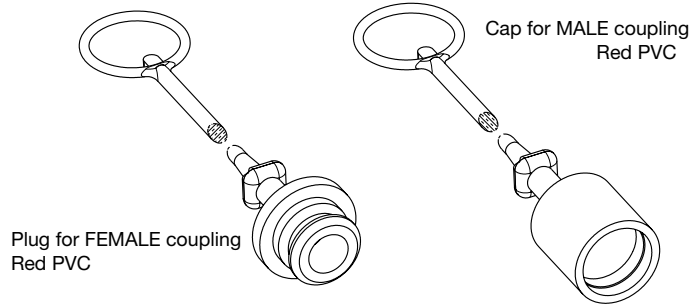
Protective caps are always recommended to protect the couplings from damage, dirt inclusion, and will increase the product life. The protective caps for IRBX series are manufactured in PVC with connection lanyard (standard color red)



QUICK CONNECT COUPLINGS



Article no.	Description	Price £	Price €
<b>RED CAP FOR ISO B</b>			
815000032	PLUG F. IRB14 RED	£1.90	€2.00
815000033	CAP M. IRB14 RED	£1.90	€2.00
815000034	PLUG F. IRB38 RED	£1.90	€2.00
815000035	CAP M. IRB38 RED	£1.90	€2.00
815000036	PLUG F. IRB12 RED	£1.90	€2.00
815000037	CAP M. IRB12 RED	£1.90	€2.00
815000038	PLUG F. IRB34 RED	£2.10	€2.20
815000039	CAP M. IRB34 RED	£2.10	€2.20
815000040	PLUG F. IRB100 RED	£2.70	€2.80
815000041	CAP M. IRB100 RED	£2.70	€2.80



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